

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/005 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 309 121 A (LUCENT TECHNOLOGIES INC) 7 May 2003 (2003-05-07) paragraph '0003! paragraph '0008! paragraph '0013!; figure 2 paragraph '0017! paragraph '0023!	1-38
A	EP 1 079 541 A (CIT ALCATEL) 28 February 2001 (2001-02-28) paragraphs '0007! - '0009! paragraphs '0013!, '0014! paragraph '0048!; figure 2	1-38

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

5 August 2004

Date of mailing of the international search report

13/08/2004

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Information on patent family members

International Application No

'IB2004/001544

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1309121	A	07-05-2003	US 2003087605 A1	08-05-2003
			EP 1309121 A1	07-05-2003
			EP 1437854 A2	14-07-2004
			JP 2003204298 A	18-07-2003
EP 1079541	A	28-02-2001	EP 1079541 A1	28-02-2001
			AU 4879600 A	01-03-2001
			CN 1285661 A	28-02-2001
			JP 2001111482 A	20-04-2001
			US 6337989 B1	08-01-2002